Title (en)

FRAC PLUG AND METHOD FOR MANUFACTURING SAME, AND METHOD FOR SEALING BOREHOLE

Title (de)

FRAC-STOPFEN UND VERFAHREN ZUR HERSTELLUNG DAVON SOWIE VERFAHREN ZUR ABDICHTUNG EINES BOHRLOCHS

Title (fr)

BOUCHON DE FRACTURATION ET SON PROCÉDÉ DE FABRICATION, ET PROCÉDÉ DE SCELLEMENT DE TROU DE FORAGE

Publication

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Application

EP 21800965 A 20210507

Priority

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Abstract (en)

Provided is a frac plug which is inserted into a wellbore, then seals the wellbore at a high strength, and is then rapidly degraded and removed, and enables efficient production of, for example, petroleum, and the like. A frac plug 10 of the present embodiment includes a member made of a magnesium (Mg) alloy. The member has a dual phase structure including: a first phase 31, which is a base phase, and a second phase 32 present in the first phase 31. In the dual phase structure, the second phase 32 is distributed in a substantially stripe shape in the first phase in a first cross section orthogonal to a second direction of the frac plug 10, and is distributed in a substantially net shape in the first phase in a second cross section orthogonal to a first direction of the frac plug 10.

IPC 8 full level

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